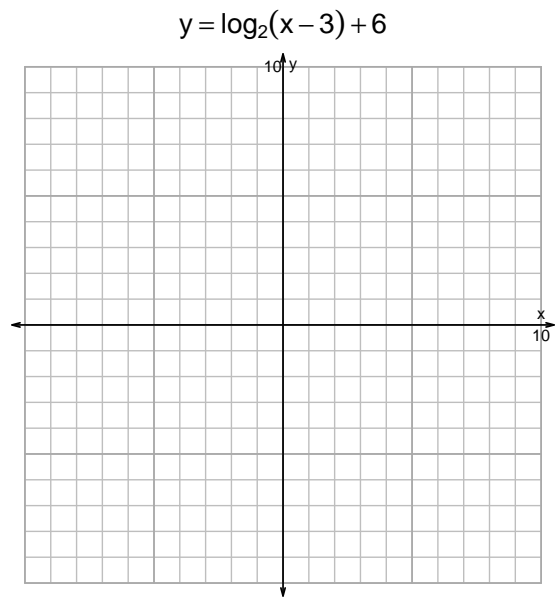
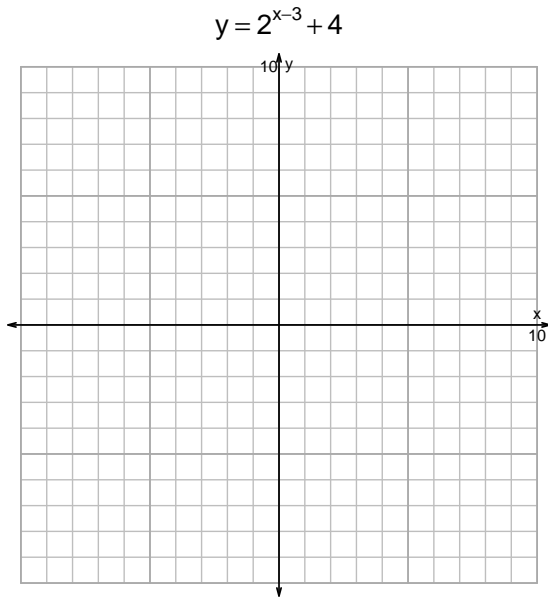


Name: _____

Date: _____

S18QUIZ: EXP LOG (PRACTICE v109)

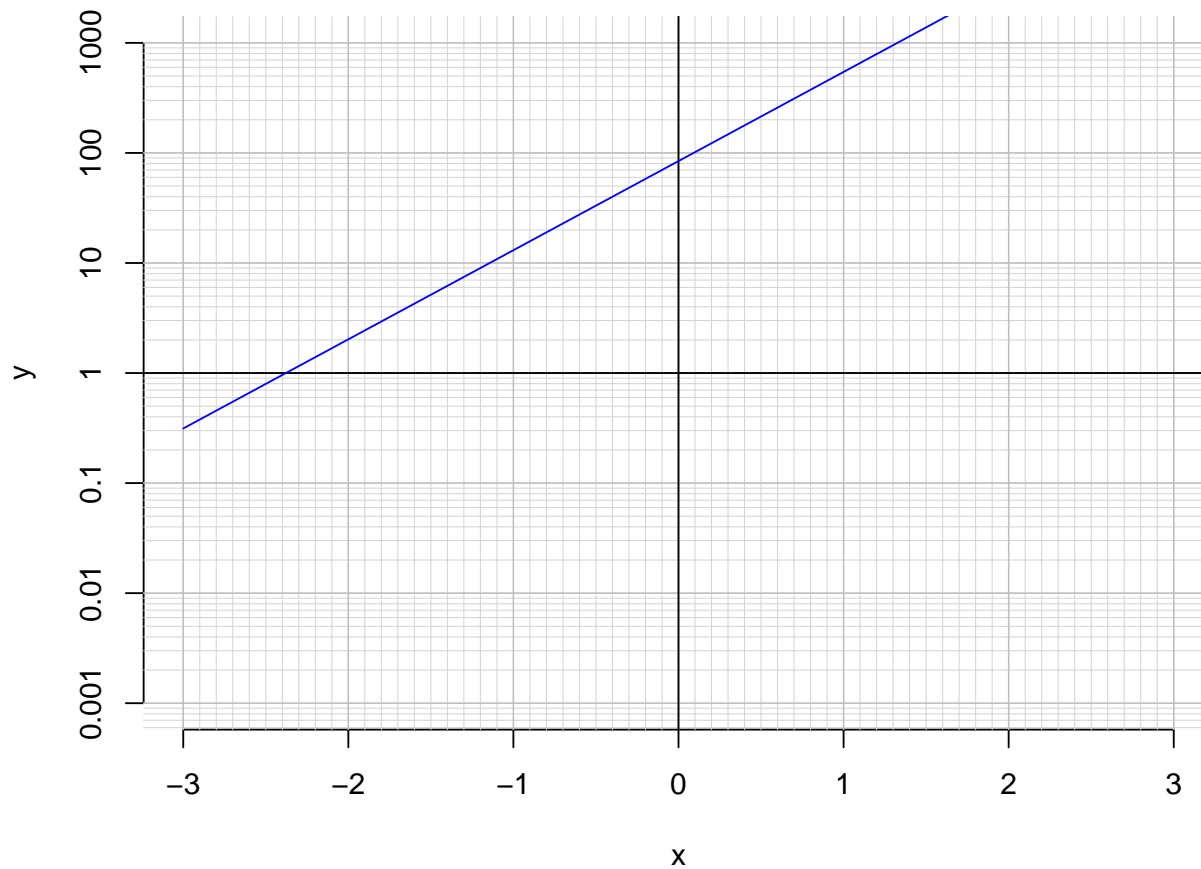
1. Graph $y = 2^{x-3} + 4$ and $y = \log_2(x - 3) + 6$ on the grids below. Also, draw any asymptotes with dotted lines.



2. Write (but do not evaluate) the solution to the equation below by writing a logarithmic expression.

$$29 = \left(\frac{7}{4}\right) \cdot 2^{-3t/5}$$

3. An exponential function $f(x) = 84.3 \cdot e^{1.86x}$ is graphed below on a semi-log plot.



a. Using the plot above, evaluate $f(-0.1)$.

b. Express $f^{-1}(x)$, the inverse of f .

c. Using the plot above, evaluate $f^{-1}(9)$.